

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/220,617A

DATE: 09/15/2000  
TIME: 06:39:30

INPUT SET: S35851.raw

(just 5 pages)

p#18

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: JOHNSON, EUGENE M  
MILBRANDT, JEFFREY D  
KOTZBAUER, PAUL T  
LAMPE, PATRICIA A  
KLEIN, ROBERT  
DESAUVAGE, FRED

(ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR

(iii) NUMBER OF SEQUENCES: 242

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: HOWELL & HAERKAMP, L.C.  
(B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400  
(C) CITY: ST. LOUIS  
(D) STATE: MO  
(E) COUNTRY: USA  
(F) ZIP: 63105

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/220,617A  
(B) FILING DATE: 24 Dec. 1998  
(C) CLASSIFICATION: 435

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: GENDLOFF, ELIE H.  
(B) REGISTRATION NUMBER: 44,704  
(C) REFERENCE/DOCKET NUMBER: 6029-7976

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 314-727-5188  
(B) TELEFAX: 314-727-6092

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:

ENTERED

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51 (D) TOPOLOGY: linear  
52  
53 (ii) MOLECULE TYPE: protein  
54  
55  
56  
57 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
58  
59 Ala Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg  
60 1 5 10 15  
61  
62 Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe  
63 20 25 30  
64  
65  
66  
67 Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu  
68 35 40 45  
69  
70 Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val  
71 50 55 60  
72  
73 Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser  
74 65 70 75 80  
75  
76 Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala  
77 85 90 95  
78  
79 Arg Glu Cys Ala Cys Val  
80 100  
81  
82 (2) INFORMATION FOR SEQ ID NO:2:  
83  
84 (i) SEQUENCE CHARACTERISTICS:  
85 (A) LENGTH: 100 amino acids  
86 (B) TYPE: amino acid  
87 (C) STRANDEDNESS:  
88 (D) TOPOLOGY: linear  
89  
90 (ii) MOLECULE TYPE: protein  
91  
92  
93  
94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
95  
96 Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser  
97 1 5 10 15  
98  
99 Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr  
100 20 25 30

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101  
102 Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu  
103 35 40 45  
104  
105 Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala  
106 50 55 60  
107  
108 His Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu  
109 65 70 75 80  
110  
111 Asp Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu  
112 85 90 95  
113  
114 Cys Ala Cys Val  
115 100  
116

## (2) INFORMATION FOR SEQ ID NO:3:

117  
118 (i) SEQUENCE CHARACTERISTICS:  
119 (A) LENGTH: 16 amino acids  
120 (B) TYPE: amino acid  
121 (C) STRANDEDNESS:  
122 (D) TOPOLOGY: linear  
123  
124 (ii) MOLECULE TYPE: peptide  
125  
126  
127 (ix) FEATURE:  
128 (A) NAME/KEY: Modified-site  
129 (B) LOCATION: 6  
130 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"  
131  
132  
133

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

134  
135 Ser Gly Ala Arg Pro Xaa Gly Leu Arg Glu Leu Glu Val Ser Val Ser  
136 1 5 10 15  
137  
138  
139

## (2) INFORMATION FOR SEQ ID NO:4:

140  
141 (i) SEQUENCE CHARACTERISTICS:  
142 (A) LENGTH: 10 amino acids  
143 (B) TYPE: amino acid  
144 (C) STRANDEDNESS:  
145 (D) TOPOLOGY: linear  
146  
147 (ii) MOLECULE TYPE: peptide  
148  
149  
150

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151 (ix) FEATURE:  
152 (A) NAME/KEY: Modified-site  
153 (B) LOCATION: 1  
154 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"  
155  
156 (ix) FEATURE:  
157 (A) NAME/KEY: Modified-site  
158 (B) LOCATION: 6  
159 (D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"  
160  
161  
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
163  
164 Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val  
165 1 5 10  
166  
167 (2) INFORMATION FOR SEQ ID NO:5:  
168  
169 (i) SEQUENCE CHARACTERISTICS:  
170 (A) LENGTH: 23 amino acids  
171 (B) TYPE: amino acid  
172 (C) STRANDEDNESS:  
173 (D) TOPOLOGY: linear  
174  
175 (ii) MOLECULE TYPE: peptide  
176  
177  
178 (ix) FEATURE:  
179 (A) NAME/KEY: Modified-site  
180 (B) LOCATION: 1  
181 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"  
182  
183 (ix) FEATURE:  
184 (A) NAME/KEY: Modified-site  
185 (B) LOCATION: 2  
186 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"  
187  
188 (ix) FEATURE:  
189 (A) NAME/KEY: Modified-site  
190 (B) LOCATION: 17  
191 (D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"  
192  
193  
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
195  
196 Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp  
197 1 5 10 15  
198  
199 Xaa Val Ser Phe Leu Ser Val  
200 20

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201  
202 (2) INFORMATION FOR SEQ ID NO:6:  
203  
204 (i) SEQUENCE CHARACTERISTICS:  
205 (A) LENGTH: 10 amino acids  
206 (B) TYPE: amino acid  
207 (C) STRANDEDNESS:  
208 (D) TOPOLOGY: linear  
209  
210 (ii) MOLECULE TYPE: peptide  
211  
212  
213  
214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
215  
216 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg  
217 1 5 10  
218  
219 (2) INFORMATION FOR SEQ ID NO:7:  
220  
221 (i) SEQUENCE CHARACTERISTICS:  
222 (A) LENGTH: 197 amino acids  
223 (B) TYPE: amino acid  
224 (C) STRANDEDNESS:  
225 (D) TOPOLOGY: linear  
226  
227 (ii) MOLECULE TYPE: protein  
228  
229  
230  
231 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
232  
233 Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser Ser  
234 1 5 10 15  
235  
236 Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg  
237 20 25 30  
238  
239 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp  
240 35 40 45  
241  
242 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala  
243 50 55 60  
244  
245 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro  
246 65 70 75 80  
247  
248 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg Ala  
249 85 90 95  
250